

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (original): Transmitter for Free Space Optical transmission systems, the transmitter including: at least one convergent lens having a corresponding focal point located at a focal distance (f) from the convergent lens along an optical axis; and at least one source of light situated behind the lens in order to produce a beam of light carrying a signal to be transmitted on air, the source being situated at a source distance (f_1) from the lens, characterised in that it also includes means for changing the source distance (f_1) for changing the angle of divergence (α) of the beam of light in a corresponding manner.

2. (original): Transmitter according to claim 1, characterised in that said means for changing the source distance (f_1) include means capable of reducing the source distance (f_1) and of increasing in a corresponding manner the angle of divergence of the beam and means capable of increasing the source distance (f_1) so as to decrease or substantially cancel out the angle of (α) of divergence.

3. (currently amended): Transmitter according to ~~claim 1~~ claim 1, characterised in that said means for changing the source distance (f_1) are responsive to information concerning the level of power received by a local optical receiver.

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4. (currently amended): Transmitter according to ~~any of claims 1-3~~claim 1, characterised in that said means for changing the source distance (f_1) include one or more stepping motors and one or more worm gears.

5. (currently amended): Transmitter according to ~~any of claims 1-3~~claim 1, characterised in that said means for changing the source distance (f_1) include magnetic transducers or other similar devices.

6. (currently amended): Transmitter according to ~~any of claims 1-5~~claim 1, characterised in that said at least one source of light includes a laser light source or an optical fibre termination.

7. (currently amended): Transceiver for FSO transmission systems, characterised in that it includes one or more transmitters according to ~~any of claims 1-6~~claim 1.

8. (original): FSO transmission system, characterised in that it includes at least two transceivers according to claim 7.

9. (original): Method for providing, in a transmitter for Free Space Optical transmission systems, a variable-divergence laser beam, said method including the following steps: provision of at least one convergent lens having a corresponding focal point situated at a focal distance (f) from the convergent lens along a optical axis; and provision of at least one

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source of light situated behind the lens for producing a beam of light carrying a signal to be transmitted on air, the source being situated at a source distance (f_1) from the lens, characterised in that it includes the step of changing the source distance (f_1) in order to alter the angle of divergence (α) of the beam of light in a corresponding manner.

10. (original): Method according to claim 9, characterised in that the step of changing the source distance (f_1) includes the step of shortening the source distance (f_1) in order to increase the angle of divergence of the beam in a corresponding manner and the step of increasing the source distance (f_1) in order to decrease or substantially cancel out the angle (α) of divergence.

11. (currently amended): Method according to ~~claim 9 or 10~~claim 9, characterised in that the step of changing the source distance (f_1) takes place in response to information concerning the level of power received from a local optical receiver.